



February 4, 2021

To: Keunyea Song, SAM coordinator
Washington State Department of Ecology, Olympia, WA

From: Marlena Milosevich
Natural Resource Specialist III, Clark County Public Works, Vancouver, WA

Subject: Deliverable D1.2: Semi-annual progress report

1. General Information

Contract Agreement Number:	C2000179
Project Title:	Status and Trends Monitoring of Urban Streams in Clark and Cowlitz Counties in the Lower Columbia River Region (LCUS)
Organization:	Clark County Public Works Clean Water Division (CWD)
CWD Project Manager:	Chad Hoxeng, CWD Interim Monitoring and Assessment Supervisor
Ecology Project Manager:	Keunyea Song, Stormwater Action Monitoring (SAM) Scientist
Reporting Period:	2020 Q4
Date Form was Completed:	03FEB2021

2. Task Achievements (This reporting period)

Task 1: Project Management

Percent of Task Completed:	12.5% Completed (\$3,400.00 of \$32,328.00 of budget used)
Deliverable:	D1.1: Semi-annual progress report
Achievements:	2020 semi-annual progress report was submitted to and accepted by Ecology. The project and budget were managed. Field, laboratory, and reporting tasks were coordinated.



Task 2: Station Set Up

Percent of Task Completed:	0% this period (50% Cumulative Completed) (\$75,131.07 of \$109,096.00 budget used)
Deliverable:	Task completed in 2020. (Past deliverables: D2.1: Copy of receipt for purchase of two conductivity probes D2.2: Confirmation email for equipment installation at five trend monitoring stations D2.3: Confirmation email for equipment installation at three status monitoring stations.)
Achievements:	2020 Deliverables completed for this task.

Task 3: Continuous Datalogger Operation and Field Data Collection

Percent of Task Completed:	0% (\$0 of \$191,402 budget used)
Deliverable:	N/A
Achievements:	On target to meet deliverable D3.1 by operating and maintaining continuous monitoring equipment and performing field data collection per the Ecology-approved LCUS QAPP. Site visits were performed in October and December at all trend and status sites. Please see 3. Challenges and Issues for more information.

Task 4: Data Management

Percent of Task Completed:	0.9% (4.5% of D4.1) (\$2,010.00 of \$63,721 budget used)
Deliverable:	D4.1: Upload continuous data to Aquarius, and send an excel file with graphs to the Ecology project manager
Achievements:	On target to meet deliverable by performing data management and submittal per the Ecology-approved QAPP. D4.1.1 (One of 22 targeted bi-monthly) excel file with graphs has been completed and accepted by Ecology.

Task 5: Data Analysis and Annual Reporting

Percent of Task Completed:	0% (\$0 of \$73,131 budget used)
Deliverable:	N/A
Achievements:	On target to meet deliverable.

3. Challenges and Issues

Status site, PCK010 (Packard Creek), was destroyed during a large rain event that occurred between bi-monthly field visits. The runoff caused a beaver dam upstream to fail. We believe that the debris from the failed beaver dam badly damaged the site, with both conductivity and stage probes being swept away and lost.

Clark County Public Works Clean Water Division (CWD) operates a Sontec IQ sensor approximately 100 ft upstream of the destroyed site that collects continuous stage, discharge, and temperature. The temperature is not NIST Certified nor QA/QC. These data will be substitute for the lost stage and temperature data. Conductivity data is lost for the time period of December 16th, 2020 12:30 onward until redeployment of a new Onset conductivity probe on February 4, 2021.

Beavers are expected to continue staying active at this site which may affect stage moving forward. There is little Clark County can do to mitigate beaver activity at this site given applicable Washington state laws. Evident in CWDs Sontec IQ sensor data and known literature, beaver dams can influence stage data.

Staffing challenges related to Covid-19 have limited site visits to bi-monthly as allowed in the Ecology approved LCUS QAPP.

4. General Comments

N/A